Method for automatically matching
graphic elements and phonetic elements

5   **ABSTRACT**

The invention derives automatically segmenting any graphic chain into graphemes and any phonetic chain into phonemes from transcriptions graphic chains (words) into

10   phonetic chains. First probabilities $(P(g_i|p_j))$ of transcriptions of graphic elements into phonetic elements are estimated (E2). For each transcription of a given graphic chain with M graphic elements into a corresponding phonetic chain with N phonetic elements,

15   second probabilities $(P(g_1, \ldots g_m|p_1, \ldots p_n))$ of MN second transcriptions of M graphic chains successively concatenating the M graphic elements into N phonetic chains successively concatenating the N phonetic elements are determined. Links between the last elements (g_m, p_n)

20   of the graphic and phonetic chains of second transcriptions are established in order to constitute in an M×N matrix a path segmenting the given graphic chain into graphemes corresponding to respective phonemes segmenting the corresponding phonetic chain.

25